

Title (en)

Apparatus for synchronizing compressed video and audio signals

Title (de)

Vorrichtung zur Synchronisierung von komprimierten Video- und Audiosignalen

Title (fr)

Appareil de synchronisation de signaux vidéo et audio comprimés

Publication

**EP 0790743 B1 19981028 (EN)**

Application

**EP 97107571 A 19940830**

Priority

- EP 94113521 A 19940830
- JP 22991093 A 19930916
- JP 27163993 A 19931029

Abstract (en)

[origin: EP0644692A2] An apparatus for generating compressed signals, which can serve to record data with high efficiency, to manage data easily, to reproduce programs in a special manner, to search for data at high speed, and to achieve accurate image-speech synchronization. The apparatus comprises a video-data grouping device (103) for processing video data into groups, each consisting of a predetermined number of video data items corresponding to image frames, a video-data compressing device (106) for compressing and encoding the video data items of each group, an audio-data grouping device (102) for processing audio data corresponding to the video data into groups, each group consisting of audio data items, an audio-data compressing device (105) for compressing and encoding the audio data items of each group, a sub-video data grouping device (104) for processing sub-video data into groups, each consisting of sub-video data items, a sub-video data compressing device (107) for compressing and encoding the sub-video data items of each group, a formatter (108) for combining the groups of compressed video data items, the groups of compressed audio data items and the groups of compressed sub-video data items, thereby generating a data unit, data-separating device (121) for separating the compressed data items, a speech decoder (122) for decoding the encoded video data items, an image decoder (123) for decoding the encoded video data items, a sub-image decoder (124) for decoding the encoded sub-video data items, and a synthesizing device combines the decoded video data items with the decoded sub-video data items. <IMAGE>

IPC 1-7

**H04N 7/52**

IPC 8 full level

**G11B 27/10** (2006.01); **G11B 27/32** (2006.01); **G11B 27/34** (2006.01); **H04N 5/92** (2006.01); **H04N 5/926** (2006.01); **H04N 5/93** (2006.01); **H04N 7/52** (2011.01); **H04N 9/804** (2006.01); **H04N 9/806** (2006.01); **H04N 9/82** (2006.01); **G11B 20/18** (2006.01); **G11B 27/034** (2006.01); **G11B 27/30** (2006.01); **H04N 5/60** (2006.01); **H04N 5/781** (2006.01); **H04N 5/783** (2006.01); **H04N 5/85** (2006.01)

CPC (source: EP US)

**G11B 27/10** (2013.01 - EP US); **G11B 27/105** (2013.01 - EP US); **G11B 27/329** (2013.01 - EP US); **G11B 27/34** (2013.01 - EP US); **H04N 5/9206** (2013.01 - EP US); **H04N 5/926** (2013.01 - EP US); **H04N 5/9262** (2013.01 - EP US); **H04N 5/9267** (2013.01 - EP US); **H04N 5/93** (2013.01 - EP US); **H04N 9/8042** (2013.01 - EP US); **H04N 9/8063** (2013.01 - EP US); **H04N 9/8227** (2013.01 - EP US); **H04N 21/42646** (2013.01 - EP US); **H04N 21/43072** (2020.08 - EP US); **H04N 21/4325** (2013.01 - EP US); **G11B 20/18** (2013.01 - EP US); **G11B 27/034** (2013.01 - EP US); **G11B 27/3027** (2013.01 - EP US); **G11B 2220/2562** (2013.01 - EP US); **H04N 5/602** (2013.01 - EP US); **H04N 5/781** (2013.01 - EP US); **H04N 5/783** (2013.01 - EP US); **H04N 5/85** (2013.01 - EP US); **H04N 9/8045** (2013.01 - EP US); **H04N 21/47217** (2013.01 - EP US)

Cited by

US8761568B2

Designated contracting state (EPC)

DE FR GB NL

DOCDB simple family (publication)

**EP 0644692 A2 19950322**; **EP 0644692 A3 19960703**; **EP 0644692 B1 19980128**; **EP 0644692 B2 20031001**; DE 69408237 D1 19980305; DE 69408237 T2 19980827; DE 69408237 T3 20040701; DE 69414275 D1 19981203; DE 69414275 T2 19990506; DE 69426894 D1 20010419; DE 69426894 T2 20010726; EP 0790739 A2 19970820; EP 0790739 A3 19971022; EP 0790739 B1 20010314; EP 0790743 A2 19970820; EP 0790743 A3 19971119; EP 0790743 B1 19981028; KR 0186063 B1 19990415; US 5715356 A 19980203

DOCDB simple family (application)

**EP 94113521 A 19940830**; DE 69408237 T 19940830; DE 69414275 T 19940830; DE 69426894 T 19940830; EP 97107570 A 19940830; EP 97107571 A 19940830; KR 19940023357 A 19940915; US 30714794 A 19940916